

NASKIDASHVILI, I.A.; GVAKHARIYA, V.M.; GORDADZE, G.P.: TOKVI, I.G.

Gamma-ray relay with a magnetic amplifier. Biul.tekh.-ekon.inform.-
Gos.nauch.-issl.inst.nauch. i tekhn.inform. no.4:43-44 '62.

(MIRA 15:7)

(Electric relays)

GORDADZE, G.P.

Some generalizations of the optimum radioisotope measuring
method. Soob. AN Gruz. SSR 40 no.2:303-310 N '65.

(MIRA 19:1)

1. Institut fiziki AN GruzSSR. Submitted March 8, 1965.

45A

453
6

449. Quantum Theory of LiH^+ . G. S. Gordalee. *Phys. Zeits. d. Sowjetunion*, 13, 4, pp. 428-434, 1937. In English.—The system LiH^+ is examined by the numerical variation method which was used by the author for the problem of three centres [see Abstract 1489 (1936)]. There is found to be quantum-mechanical instability of the given formation. The approximate investigation of this system within the limits of the theory of Heitler and London leads to the same instability of LiH^+ .
AUTHOR.

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION	RECORDS WITH ONLY ONE	RECORDS WITH ONLY TWO	RECORDS WITH ONLY THREE	RECORDS WITH ONLY FOUR	RECORDS WITH ONLY FIVE	RECORDS WITH ONLY SIX	RECORDS WITH ONLY SEVEN	RECORDS WITH ONLY EIGHT	RECORDS WITH ONLY NINE	RECORDS WITH ONLY TEN	RECORDS WITH ONLY ELEVEN	RECORDS WITH ONLY TWELVE	RECORDS WITH ONLY THIRTEEN	RECORDS WITH ONLY FOURTEEN	RECORDS WITH ONLY FIFTEEN	RECORDS WITH ONLY SIXTEEN	RECORDS WITH ONLY SEVENTEEN	RECORDS WITH ONLY EIGHTEEN	RECORDS WITH ONLY NINETEEN	RECORDS WITH ONLY TWENTY	RECORDS WITH ONLY TWENTY-ONE	RECORDS WITH ONLY TWENTY-TWO	RECORDS WITH ONLY TWENTY-THREE	RECORDS WITH ONLY TWENTY-FOUR	RECORDS WITH ONLY TWENTY-FIVE	RECORDS WITH ONLY TWENTY-SIX	RECORDS WITH ONLY TWENTY-SEVEN	RECORDS WITH ONLY TWENTY-EIGHT	RECORDS WITH ONLY TWENTY-NINE	RECORDS WITH ONLY THIRTY
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GORDADZE, G.S.

Some eternal equations of the quantum theory of molecules. Part
1. Trudy Inst.geofiz.AN Gruz.SSR 11:181-194 '49. (MLRA 9:8)
(Quantum theory) (Molecules)

GORDADZE, G.S.

Some eternal equations of the quantum theory of molecules. Part 2.
Trudy Inst.geofiz.AN Gruz.SSR 11:195-203 '49. (MLBA 9:8)
(Quantum theory) (Molecules)

GORDADZE, G. S.

LC

192T90

Quantum resonance (Pauling) between these 2 states is practically impossible in consequence of the great difference the energies of these states. Submitted 3 Feb 50 by I. N. Vekua, Acad Mem, Acad Sci Georgian SSR.

USSR/Physics - Quantum Theory (Contd)

1950

LC

192T90

Investigates the quantum-mech interaction in the case of a 3-electron bond with nonequivalent centers of L_1H^+ . Discusses 2 limiting cases: $L_1^+ \sim H$ and $L_1^{++} \sim H^-$; the 1st corresponding to repulsion and 2d to stable interaction.

"Soob Ak Nauk Gruz SSR" Vol XI, No 3, pp 147-151

"Three-Electron Problem of Two Nonequivalent Centers," G. S. Gordadze Inst of Phys and Geophys, Tbilisi, Acad Sci Georgian SSR

USSR/Physics - Quantum Theory

1950

PA 192T90

GORDADZE, G. S.

S. 13

192793
192793

PA 192T93

finds that the energy of dissn of mol $L_1^+H^-$ into L_1^+ and H is 50.7 Cal/mol (exptl value: 57.7), and that the theoretical distance of equil equals 2.087 A (exptl: 1.6).

LC USSR/Physics - Quantum Mechanics (Contd) 1950

192T93

Investigates the quantum-mech model of the h -elec-
tron system $L_1^+H^-$, in contrast to the usual 2-
electron representation (Pauling), by means of
variational methods according to the type s^2s^2 .

"Four-Electron Model of $L_1^+H^-$ " G. S. Gordadze, Inst
of Phys and Geophys, Tbilisi, Acad Sci Georgian
SSR

1950

"Goob Ak Nauk Gruz SSR" Vol XI, No 4, pp 215-221

GORDADZE, G. S.

PA105154

USSR/Nuclear Physics - Varitrons

Aug 50

"Principle Governing the Interaction and Mass of Varitrons: A Letter to the Editor," G. S. Gordadze

"Zhur Eksper i Teoret Fiz" Vol XX, No 8, pp 767-768

Compares masses of varitrons according to: (a) Born's theory and (b) Alikhanov's and Alikhanyan's experimental data. Submitted 24 Feb 50.

165T54

1. GORDADZE, G. S.
2. USSR (600)
4. Mesotrons
7. Theoretically possible masses of mesons. Soob. AN Gruz. SSR 12, No. 8, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

GORDADZ, G.S.

3

✓ Some problems in the quantum theory of molecules.
G. S. Gordadze. *Trudy Inst. Fiz. Akad. Nauk Gruz. S.S.R.*, 49-106(1953); *Referat. Zhur. Fiz.* 1955, No. 2615. — The method of the theory of groups is applied to the problem of orbital valence. The general characteristics of the problem of the quantum theory of mols. and its presentation in a matrix formula are discussed. An attempt to apply Hermitian forms to mol. problems is made. Concrete examples are considered: interaction of hydrogen-like atoms, interaction of type $s^1 \sim s$. Also a variation method and its application to the problem of the quantum theory of mols. are discussed. He_2^+ , LiH^+ , and LiH were studied.

Marjorie Ketner

Smul

GORDADZE, G.S.

Category : USSR/Atomic and Molecular Physics - Physics of the Molecule

D-1

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6191

Author : Gordadze, G.S.

Title : Multiply-Semilocalized Molecular Orbits

Orig Pub : Tr. Tbilissk, gos. ped. in-ta, 1955, 10, 557-561

Abstract : An approximate method is proposed for solving the integro-differential equations of the self-consistent field for the case of the H_2 molecule, starting with the wave function $U=N(\psi_a + \psi_b)$ where ψ is the hydrogen-like varied wave function of the ground state of the electron 1 in the field of the nucleus a, and b is the corresponding function of electron 2 in the field of nucleus b, while $N = \sqrt{2(1+S^2)}$ is the norm of function 1 of the H_2 molecule. Here $S = \int \psi_a \psi_b d\tau$. It was found that the minimum energy of the molecule in the state $^1\Sigma$ corresponds to a distance $R = 0.752$ Å between the nuclei (the experimental value is 0.741 Å). The depth of the minimum is 1.128 atomic units. The results are a maximum (-0.7921 atomic units) at $R = 7.15$ atomic units.

Card : 1/1

Gordadze, G.S.

USSR/Atomic and Molecular Physics - Atomic Physics

D-1

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516120013-2"

Author : Kakushadze, T.I., Gordadze, G.S., Kokonova, M.G.

Title : Distribution of Electrons in Atoms of the Rare Earth Metals

Orig Pub : Tr. Tbi-lissk. gos. ped. in-ta, 1955, 10, 573-585

Abstract : The electron configurations of the neutral atoms of the lanthanides are taken in the specialized literature to be $4f^{0-14}5d^16s^2$ and $4f^{0-14}6s^2$. In the authors' opinion, both these configurations exist simultaneously. The first gives the magnetic properties and the normal valence of the lanthanides, and the second gives the spectroscopic characteristic of the lanthanides. By virtue of this it is necessary to retain in the literature both configurations.

Card : 1/1

PRIKHOT'KO, A. F.
24(7) p. 3 PHASE I BOOK EXPLOITATION SOV/1365
L'vov. Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii. t. 1: Molekulyarnaya spektroskopiya (Papers of the 10th All-Union Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy) [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies printed. (Series: Its: Fizichnyy sbirnyk, vyp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii. Ed.: Jazer, S.L.; Tech. Ed.: Saranyuk, T.V.; Editorial Board: Landsterg, G.S., Academician (Resp. Ed., Deceased), Neporent, B.S., Doctor of Physical and Mathematical Sciences, Fabelinskiy, I.L., Doctor of Physical and Mathematical Sciences, Fabelinskiy, V.A., Doctor of Physical and Mathematical Sciences, Kornitskiy, V.G., Candidate of Technical Sciences, Rayakiy, S.M., Candidate of Physical and Mathematical Sciences, Klimovskiy, L.K., Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.S., A. Ye., Candidate of Physical and Mathematical Sciences.

Card 1/30

Gordadze, G.S. Anharmonicity of the Potential Curve of a Hydrogen Molecule

317

Kusakov, M.M., S.S. Nifontova, Ye. S. Pokrovskaya, et al. Study of the Structural-group Composition of Kerosene Fractions by Means of the Absorption Spectra in the Near Ultraviolet Region

321

Iogansen, A.V. Structural-group Analysis of Saturated Petroleum Products by Means of Infrared Absorption Spectra. Determination of CH_2 -groups, Aliphatic CH_2 -groups and Long Chains, $(\text{CH}_2)_n$

327

Gal'pern, G.D., A.N. Kialinskiy, I.A. Musayev, et al. Study of the Composition of Benzene-ligroin Fractions by Means of Combined Dispersion Spectra

329

Gal'pern, G.D., M.M. Kusakov, Ye. S. Pokrovskaya, et al. Study of the Absorption Spectra of Some Petroleum Aromatic Hydrocarbons in the Near Ultraviolet and Infra-red Regions

334

Card 21/30

GORDADZE, G.S.
USSR/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 6881.

Author : G.S. Gordadze.

Inst : Georgian Polytechnical Institute.

Title : Basic State of H_2^+ and H_2 as James, Coolidge and Kokel Functions.

Orig Pub: Tr. Gruz. politekhn. in-t, 1957, No 4 (52), 149-164.

Abstract: The energies of the systems H_2^+ and H_2 were computed as function of the interatomic distance using the simplified James and Coolidge wave function $\psi = \exp(-\xi/2)$ (ξ is the effective charge, ξ is the elliptic co-ordinate, $\xi = (r_1 + r_2)/R$.) It is noted that the used functions do not give the true course of the potential curve at great R-s. The author assumes that the dissociation energy is determined by the energy, at which the curves of $1 \Sigma g$ and $3 \Sigma g$ states are crossing, and that consequently, the bond energy computed by the variation method using

Card : 1/2

-1-

GORDADZE, G. S., Doc Phys-Math Sci -- (diss) "Certain Problems of Molecular Quantum Mechanics." Tbilisi, 1958. 10 pp (Order of Lenin Mos State Univ in M. V. Lomonosov, Phys Fac), 150 copies (KL 40-58, 112)

24,6000

69151

S/139/59/000/06/007/034

R032/E114

AUTHORS: Gordadze, G.S., Dekanosidze, Ye., Makharadze, D.,
Dididze, Ts.

TITLE: On the Limits of Accuracy of the Molecular Orbital given
by James

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,
1959, Nr 6, pp 42-47 (USSR)

ABSTRACT: The aim of the present work was to study the ground state
of the ion H_2^+ using the James function (Ref 6) and to
compare the potential curve obtained with the aid of this
function with the accurate potential curve for this
system in the $ls\sigma_g$ (Ref 2). Such a comparison enables
an estimate to be made of the accuracy of the molecular
orbital (MO) obtained by James. James's MO for the
ground $ls\sigma_g$ state of the ion H_2^+ is determined by the
function given by Eq (1), where δ and α are the
variation parameters and λ and μ are the elliptical
coordinates of the electron in the H_2^+ ion with the
nuclei at a fixed distance R from each other. The
elliptical coordinates are defined by Eq (2) in which

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E032/E114

On the Limits of Accuracy of the Molecular Orbital given by James
 r_a and r_b are the distances between the electrons and the nuclei a and b of the H_2^+ ion. Using the usual variational method, James found that the binding energy of the ion is $D(H_2^+) = 2.772$ ev. The spectroscopic energy (Ref 7) is 2.791 ev. This satisfactory agreement was obtained with $\delta = 1.35$, $\alpha = 0.4475$, and $R = 1.06 \text{ \AA}$. Since the binding energy gives such a good agreement with experiment, the problem arises as to whether it is possible to obtain the entire potential curve of the above ion with the aid of the James function (Eq 1). To carry out this programme the energy of the ion is taken to be in the form of Eq (8) in which the various parameters involved are defined by Eqs (9)-(16). In order to calculate the parameters δ and α corresponding to the minimum of the energy given by Eq (8), the system of nonlinear algebraic equations given by Eq (17) must be solved with the aid of Eq (8), and the auxiliary functions given by Eqs (9)-(16). The solution of Eq (17) gives a system of equations of the form of Eq (18) and the substitution of these into Eq (8)

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2/4

69151

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E032/E114

On the Limits of Accuracy of the Molecular Orbital given by James gives the potential curve of the ion in the $1s\sigma_g$ state, i.e. $E = E(R)$. Numerical analysis of the problem for $R = 1.06 \text{ \AA} = 2.003 \text{ au}$ showed that $\alpha = 0.4475$ and $\delta = 1.253$, which satisfies Eq (17) to 1 part in 1000. The results of the numerical analysis are summarized in the Table on p 45, in which the first column gives the value of the distance in au, the fourth column gives the value of $-E$ according to the present paper (in au), and the fifth column gives the value of $-E$ given in Ref 2 by Bates, Ledsham and Stewart. The last column gives the percentage deviation of the results obtained in the present work. As can be seen, the molecular orbital given by James may be used in the approximate analysis of molecular problems only in the internuclear distance range $1.7 \leq R \leq 3.0 \text{ au}$. Moreover, the binding energy in the $1s\sigma_g$ state as calculated in the present paper differs by only 0.251% from the experimental value. There are 2 tables and 8 references, of which 5 are English and 3 Soviet.

Card
3/4

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S/139/59/000/06/007/034
E032/E114

On the Limits of Accuracy of the Molecular Orbital given by James

ASSOCIATION: Gruzinskiy politekhnicheskii institut imeni
V.I. Lenina
(Georgian Polytechnical Institute imeni V.I. Lenin)

SUBMITTED: February 9, 1959

Card 4/4

✓

GORDADZE, G.S.

Dissociation in sensitized photochemical reactions. Opt. 1
spektr. 10 no.4:551-552 Ap '61. (MIRA 14:3)
(Photochemistry)

RUMANIA

MACOVESCU, Al., Colonel Medical Corps; CHERCHU, I., Major, Medical Corps, Dr. in Medical Sciences; and GORDAN, G., Major, Medical Corps.

"A New Method for Carrying Out Antibigrams on the Microbial Flora in the Sputum"

Bucharest, Revista Sanitara Militara, Vol. 62, No. 3, May-June 1966; pp 563-566

Abstract: Report on the discovery that the digest of beans is an excellent medium for culturing even the most fastidious pathogens which were always thought to grow only in media supplemented with blood or serum. Table. Manuscript received 5 September 1965.

1/1

- 34 -

FEDORCHENKO, I.M.; PANAIOTI, I.I.; DERKACHEVA, G.M.; DZYKOVICH, I.Ya.;
GORDAN', G.N.

Studies in the field of friction materials. Report No.2.
Porosh. met. 5 no.9:65-68 S '65. (MIRA 18:9)

1. Institut problem materialovedeniya AN UkrSSR i Institut
elektrosvarki imeni Patona AN UkrSSR.

MAKARA, A.M.; DZYKOVICH, I.Ya.; MOSENDZ, N.A.; GORDAN', G.N.

Investigating the microscopic chemical heterogeneity in
welds. Avtom.svar. 18 no.11:5-11 N '65.

(MIRA 18:12)

1. Institut elektrosvarki im. Ye.O.Patona AN UkrSSR.
Submitted April 13, 1965.

PARFESSA, G.I.; PODGAYETSKIY, V.V.; GORDAN', G.N.

Sulfide interlayers in welded joints. Avtom.svar. 18 no.11:12-1/
N '65. (MIRA 18:12)

1. Institut elektrosvarki im. Ye.O.Patona AN UkrSSR. Submitted
March 1, 1965.

L 24457-66 EWT(m)/EWP(v)/I/EWP(t)/EWP(k) IJP(c) JD/AM/AN/JG	
ACC NR: AP6012277 (N)	SOURCE CODE: UR/0125/65/000/011/0005/0011
AUTHOR: <u>Makara, A. M.; Dzykovich, I. Ya.; Mosendz, N. A.; Gordan', G. N.</u>	
ORG: <u>Institute of Electric Welding Im. Ye. O. Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR)</u>	
TITLE: <u>Investigation of microscopic chemical heterogeneity in weld joints</u>	
SOURCE: <u>Avtomaticheskaya svarka, no. 11, 1965, 5-11</u>	
TOPIC TAGS: welding, x ray analysis, alloy steel, weld evaluation, cooling rate, high strength steel, seam welding	
ABSTRACT: Localized x-ray analysis is used for studying the effect of cooling rate on the degree of chemical nonhomogeneity in welded seams of high-strength steel as a function of the content of basic alloying elements (silicon, manganese, chromium, nickel, molybdenum and tungsten) and also for determining the relationship between this non-homogeneity and the concentration of carbon in the seam, as well as the content of carbon combined with alloying elements. Electroslag, electric arc and electron beam methods were used to give a wide range of cooling rates. Welded specimens of KhGSN, Kh2GSNVM and Kh3M were studied. It is shown that the degree of microscopic chemical heterogeneity in the joints remains nearly constant throughout a wide range of cooling rates and variations in acicular crystallite sizes. The degree of liquation of	
UDC: 621.791.053 : 620.192.3	
Card 1/2	

L 24457-66

ACC NR: AP6012277

elements in the weld seams is considerably dependent on carbon concentration, nature of the impurity element and the system used for alloying. The degree of molybdenum liquation increases rapidly with carbon concentration, tungsten shows somewhat less dependence, while the liquation of chromium, silicon, manganese, and nickel is affected only slightly by an increase in carbon content. Molybdenum and vanadium liquate out much more readily than chromium, silicon and manganese; nickel is not segregated in this manner at all in many cases. Further studies are needed on the development of chemical microheterogeneity in weld seams as a function of crystallization conditions, concentration and nature of impurity elements and alloying systems. Orig. art. has: 3 figures, 3 tables.

SUB CODE: 11,13/

SUBM DATE: 13Apr65/

ORIG REF: 008/

OTH REF: 002

Cord 2/2da

L 23415-66 EWT(m)/EWP(w)/EWA(d)/EWP(v)/I/EWP(t)/EWP(k) IJP(c) JD/HM/JH
 ACC NR: AP6004135 (N) SOURCE CODE: UR/0125/66/000/001/0010/0014

AUTHOR: Rabkin, D. M.; Dzykovich, I. Ya.; Ryabov, V. R.; Gordan', G. N.

ORG: Institute of Electric Welding im. Ye. O. Paton, AS UkrSSR (Institut elektros-
varki)

TITLE: Distribution of elements in the fusion zone during the welding of aluminum
with steel

SOURCE: Avtomaticheskaya svarka, no. 1, 1966, 19-14

TOPIC TAGS: arc welding, bimetal welding, aluminum, steel, phase composition

ABSTRACT: This distribution was investigated by means of microradiographic and x-ray structural analyses for cases of different pre-welding treatment of both metals. Three types of steel-aluminum welded specimens cut out from the zone of transition from Al to steel were investigated: zinc-plated steel St. 3 (thickness of galvanic coating ~40 μ with aluminum AD1 (automatic double-arc welding); steel St. 3 with the Al alloy AMg5V (automatic argon arc welding, coated wire electrodes containing pure aluminum AV000 treated with 2 and 5% Si); alitized steel 1Kh18N9T with the alloy AMg6 (alitizing performed in pure aluminum AV000, with subsequent argon arc welding with standard coated AMg6 wire). Findings: the welding of zinc-plated steel St. 3 with aluminum AD1 results in a fusion zone containing 38-43% Fe. The constitution diagram

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UDC: 621.791.7:546.621:669.140

L 23416-66

ACC NR: AP6004135

shows that this corresponds to the presence of two phases in the layer: Fe_2Al_3 , located more closely toward iron, and FeAl_3 , located more closely toward Al. Welding with Si-treated coated wire electrode changes the phase composition of the fusion zone compared with the fusion zone of Zn-treated Fe-Al welds: the amount of the Fe_2Al_3 phase decreases and the width of the intermetallide layer is insignificant. Thus, silicon participates in the formation of the fusion zone by narrowing the region of existence of the most brittle phase Fe_2Al_3 . As for the fusion zone of the welded joint of alitized -- in pure Al -- steel 1Kh18N9T with Al alloy AMg6, it was found to contain a lower (~24-25%) amount of Fe, which accounts for the particularly high strength of this type of welded joint. Orig. art. has: 2 formulas, 6 figures.

SUB CODE: 11, 13, 20/ SUEM DATE: 12Feb65/ ORIG REF: 007/ OTH REF: 005

Card

2/2 dda

L 07434-67 EWT(m)/EWP(t)/ETI IJP(c) JH/JD/HW

ACC NR: AP6030266

(N)

SOURCE CODE: UR/0125/66/000/008/0006/0009

47
B

AUTHOR: Makara, A. M.; Dzykovich, I. Ya.; Gordan', G. N.; Mosendz, N. A.

ORG: Institute of Electric Welding im. Ye. O. Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR)

TITLE: Chemical micrononhomogeniety of cast alloys as a function of cooling rate

SOURCE: Avtomaticheskaya svarka, no. 8, 1966, 6-9

TOPIC TAGS: cast alloy, aluminum base alloy, copper base alloy, zinc containing alloy, nickel containing alloy, cooling rate, metal crystallization

ABSTRACT: Local x-ray spectral analysis is used for studying the effect of cooling rate on the degree of liquation of alloying elements in aluminum-zinc (15 wt.% Zn) and copper-nickel (15 wt.% Ni) alloys. The alloys were melted from 99.99% pure components in aluminum and steel crucibles 20 mm in diameter and 30 mm high. The difference in cooling rates was produced by using cold water, air or by furnace cooling. Some of the copper-nickel alloys were also poured into tapered water-cooled molds to obtain intermediate cooling rates. The cooling curves showed a pronounced inflection point corresponding as a rule to the equilibrium liquidus temperature. This temperature was taken as the end of crystallization on curves where this point was not fixed. The experimental data show that the degree of liquation of zinc in the Al-Zn alloys and of

Card 1/2

UDC; 621.791;620.192,4

ACC NR: AP6030266

0

nickel in the Cu-Ni alloys increases sharply as the cooling rate is accelerated reaching a maximum at comparatively low cooling rates (about 1-3°C/sec) where it remains constant with a further increase in cooling rate. The development of chemical micro-nonhomogeneity (dendrite liquation) during crystallization changes the composition of interdendrite boundaries and the temperature range of alloy crystallization. This should have a corresponding effect on the technological properties of the alloy in this range. These data may be used for explaining the connection between the type of phase diagram and the resistance of the alloy to the formation of hot cracks. The composition of the dendrite axes in aluminum-zinc alloy is determined by the equilibrium solidus point and is independent of cooling rate over a wide range. Orig. art. has: 4 figures, 1 table.

SUB CODE: 11/ SUBM DATE: 16Mar66/ ORIG REF: 014/ OTH REF: 002

ms
Card 2/2

GORDANOV, I.I., kand. tekhn. nauk, dots., otv. red.

[Structural mechanics] Stroitel'naya mekhanika; doklady na XIX nauchnoi konfarentsii. Leningrad, 1961. 31 p. (MIRA 15:6)

1. Leningrad. Inzhenerno-stroitel'nyy institut.
(Structures, Theory of)

SERGIYENKO, S.R.; GORDASH, Ye.T.

Low-temperature conversions of high-molecular-weight aromatic hydrocarbons of Radchenkovo petroleum. Article No.16. Trudy Inst.nefti 12: 88-101 '58. (MIRA 12:3)

(Hydrocarbons)

GORDASH, Yu. T.

SERGIYENKO, S.R.; GORDASH, Yu.T.

Chemical nature and composition of condensed bicyclic compounds
from macromolecular fraction of Radchenkovo petroleum. Article
No.12. Trudy inst. nefti. 10:170-180 '57. (MIRA 11:4)
(Petroleum) (Condensation product (Chemistry))

GORDASH, Yu. T., Cand Chem Sci -- (diss) "^{nature}Chemical ~~Property~~
^{Conversions}and ~~Transmutations~~ of High-Molecular Aromatic Hydrocarbons
of Radchenkov ^{petroleum}~~naphtha~~." Mos ^{publishing house of}~~[published by]~~ Acad Sci USSR],
1958. 19 pp ^{with graphs} (Acad Sci USSR, ^{Inst. of Petroleum,}~~Naphtha Inst~~, 160 copies
(KL 40-58, 113)

GORDASH, Y. T.

3(3) 21(4)	
Академия наук СССР. Институт нефти	
Труды, т. 12 (Transactions of the Petroleum Institute, USSR. Academy of Sciences, Vol. 12) Moscow, Izdat. AN SSSR, 1958. 395 p. Kireva slip inserted. 1,100 copies printed.	
М. Л. С. Р. Сергеев, Профессор, Ил. of Publishing House: K. O. Kuznetsov. Tech. Ed.: V. V. Golubev.	
FOREWORD: This book is intended for scientists, engineers, and technicians in the petroleum industry.	
CONTENTS: This collection of articles describes the results of studies on the chemistry and technology of petroleum and gas conducted in the laboratories of the Petroleum Institute, Academy of Sciences, USSR, in 1956 and 1957. A new section "Petrochemical Synthesis and Technology of Petroleum" has been included in the collection of articles. A list of investigations published by the scientists of the Institute in 1956 and 1957 and 1958 is given for the section "The Institute's Research".	
Summary of the Petroleum Institute, Academy of Sciences, USSR, are given.	
Change in the Activity of Sulfur Oxide in the Chromatographic Separation of Hydrocarbons	25
Gal'perin, G. D., E. M. Kuznetsov, Ye. S. Kuznetsov, and N. A. Gerasimov. Study of the Absorption Spectra of Some Cyclohexyl and Cyclopentyl Benzene Derivatives in the Near Ultraviolet Region	30
Card 2/9	
Sergeyenko, S. R., E. M. Kuznetsov, and E. P. Derydov. Investigation of the Composition and Properties of High-Molecular Weight Hydrocarbons and Tars of Oxygens Petroleum	65
Sergeyenko, S. R., E. M. Derydov, A. D. Litmanovich, and Y. A. Shakhmurov. Some Physicochemical Properties of Petroleum Asphaltenes and Tar Solutions. Part 1A.	76
Sergeyenko, S. R., and Yu. P. Gordash. Composition and Properties of the Tar Fraction of Badkashiro Petroleum. Part 15	85
Sergeyenko, S. R., and Yu. P. Gordash. Low-Temperature Transformations of High-Molecular Weight Aromatic Hydrocarbons of Badkashiro Petroleum. Part 16	88
Sergeyenko, S. R., Yu. P. Gordash. Chemical Nature of Saturated High-Molecular Weight Hydrocarbons of Romashkino (Devonian) Petroleum. Part 17	102
Sergeyenko, S. R., and Ye. V. Lebedev. Chemical Nature of Saturated High-Molecular Weight Hydrocarbons of Romashkino (Devonian) Petroleum. Part 18	117
Sergeyenko, S. R., and A. A. Mikheyevskaya. The Chemical Nature of High-Molecular Weight Monocyclic Aromatic Hydrocarbons of Romashkino (Devonian) Petroleum. Part 19	136
Sergeyenko, S. R., I. A. Rybakina, and Ye. V. Lebedev. Investigation of the Chemical Nature of High-Molecular Weight Condensed Dicyclic Aromatic Compounds of Romashkino Petroleum by the Catalytic Hydrogenation Method in the Presence of Raney Ni. Part 20	147
Sergeyenko, S. R., Ye. V. Derydov, and I. A. Rybakina. Hydrogenation of High-Molecular Weight Condensed Dicyclic Aromatic Compounds of Romashkino Petroleum in the Presence of a $W_2 - H_2 - Al_2O_3$ Catalyst under MIL-2 Conditions. Paper 21	156
Sergeyenko, S. R., I. A. Rybakina, and Ye. V. Derydov. Hydrogenation of Tars Isolated from Romashkino Petroleum. Paper 22	169
Sergeyenko, S. R., Ye. V. Derydov, P. E. Galich, L. I. Rybakina, E. E. Derydov, and M. I. Krasnobrodskiy. Effect of the Depth of Selective Cracking on the Composition and Properties of Heavy Residual Petroleum Fraction. Part 23	175
Sergeyenko, S. R., Ye. V. Derydov, P. E. Galich, L. I. Rybakina, E. E. Derydov, and M. I. Krasnobrodskiy. Effect of the Nature of the Residual and Oxidation Time on the Composition and Properties of Oxidized Bitumens. Article 24	194

SERGIYENKO, S.R.; GORDASH, Yu.T.

Chemical nature and conversion of high-molecular homologs of
petroleum naphthalene. Dokl. AN BSSR 2 no.7:294-298 Ag '58.
(MIRA 11:10)

1. Predstavleno akademikom AN BSSR B.V.Yerfeyevym.
(Naphthalene)

SERGIYENKO, S.R.; GORDASH, Yu.T.

Composition and properties of the tar fraction of Radchenkovo petroleum. Article No. 15. Trudy Inst.nefti 12:83-87 '58. (MIRA 12:3)
(Tar)

SERGIYENKO, Semen Romanovich; Prinimeli uchastiye: SKLYAR, V.T.; ~~GORDASH~~
YU.T.; MAZOROV, L.S.; ZHDANOVA, N.V.; DAVYDOV, B.B.; LEBEDEV, Ye.V.;
~~TETERINA~~, M.P.; L'VOVA, L.A., vedushchiy red.; TROFIMOV, A.V.,
tekhn.red.

[High molecular weight compounds in petroleum] Vysokomolekuliarnye
soedineniia nefti. Moskva, Gos.nauchno-tekhn.isd-vo نفت. i gorno-
toplivnoi lit-ry, 1959. 412 p. (MIRA 12:12)
(Petroleum--Analysis) (Macromolecular compounds)

5(4),5(3)

AUTHORS:

Sergiyenko, S. R., Kvitskovskiy, L. N., SOV/20-128-4-37/65
Gordash, Yu. T., Petrov, Al. A.

TITLE:

Adsorption Properties of Highly Molecular Hydrocarbons of a Mixed Structure

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 4, pp 769-772 (USSR)

ABSTRACT:

(Abstracter's Note: Under "adsorption property" the authors mean in this case the "ability of being adsorbed"). In the introduction, the authors refer to the manifold use of adsorption to surfaces of solids in industry and research work, particularly to selective adsorption in chromatography. The adsorbability of various hydrocarbons is best characterized by their adsorption isothermal. The adsorption capacity of hydrocarbons of the benzene-kerosene fraction of petroleum rises in the order: saturated hydrocarbons < olefines < diolefines < monocyclic aromatic hydrocarbons < polycyclic aromatic hydrocarbons. The order mentioned is, however, not applicable to the chromatographic investigation of highly molecular petroleum fractions having complicated molecules with a mixed structure, and containing, at the same time,

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Adsorption Properties of Highly Molecular
Hydrocarbons of a Mixed Structure

SOV/20-128-4-37/65

phenyl-polymethylene- and other rings. Therefore, this paper is concerned with the study of the influence of individual structural constituents of such molecules which, in part, were specially synthesized. The adsorption isothermals (Figs 1,2) were statically determined by the contact of the hydrocarbons dissolved in n-dodecane with silica gel (brand ASK) or aluminum oxide (quality "for chromatography" of the Stalinskiy Zavod - Stalino Works) by the method of K. D. Shcherbakova and A. V. Kiselev (Ref 2). Table 1 indicates the experimental data. Adsorption increases with the rising fraction of aromatic and other cyclic carbon atoms in the total content of carbon atoms. Adsorbability depends on the ratio between carbon atoms in aromatic rings and carbon atoms in paraffin chains. The position of aromatic rings within the molecule and their type are of inferior influence. The introduction of decaline- or cyclohexane structures into the molecule, which already contains aromatic rings, raises the adsorbability. Silica gel adsorbs, a little more selectively than aluminum oxide, the hydrocarbons containing two aromatic

Card 2/3

Adsorption Properties of Highly Molecular
Hydrocarbons of a Mixed Structure

SOV/20-128-4-37/65

rings. The results suggest that a chromatographic separation of hydrocarbons, with the same molecular weight but different content of aromatic rings, is well possible. There are 2 figures, 1 table, and 3 Soviet references.

ASSOCIATION: Institut geologii i razrabotki goryuchikh iskopayemykh
Akademii nauk SSSR (Institute of Geology and Mining of
Mineral Fuels of the Academy of Sciences, USSR)

PRESENTED: May 25, 1959, by M. M. Dubinin, Academician

SUBMITTED: May 23, 1959

Card 3/3

GORDASH, Yu.T.; SERGIYENKO, S.R.; SEMYACHKO, R.Ya.; REKUNOVA, E.A.

Chemical nature of the macromolecular hydrocarbon portion of
Mukhanova petroleum. Dokl. AN BSSR 5 no.3:112-117 Mr '61.

(MIRA 14:3)

1. Institut fiziko-organicheskoy khimii AN BSSR. Predstavleno
adademikom AN BSSR B.V. Yerofeyevym.
(Mukhanova region—Petroleum—Analysis)

GORDASH, Yu.T.; LARYUTINA, E.A.; SEMYACHKO, R.Ya.

Sulfonation of aromatic hydrocarbons by the dioxane-sulfotrioxide complex. Dokl. AN BSSR 6 no.4:237-239 Ap '62. (MIRA 15:4)

1. Institut fiziko-organicheskoy khimii AN BSSR. Predstavleno akademikom AN BSSR B.V.Yerofeyevym.
(Hydrocarbons) (Sulfonation)

S/250/62/006/007/002/002
I032/I242

AUTHORS: Gordash, Yu. T., Shevchik, A.M., Laryutina, E.A.,
Pavlyuchenko, K.V.

TITLE: The groups of sulfur-containing organic compounds in
the benzene-kerosene fractions of Mukhanov oil

PERIODICAL: Akademiya nauk BSSR. Doklady, v.6, no.7, 1962,
442-444

TEXT: Commercial petroleum from Mukhanov was fractionated in-
to 12 fractions, the highest fraction boiling between 325° and 350°. The weight percentages of sulfur contained in mercaptanes (mercaptane sulfur), sulfides (sulfide sulfur), disulfides (disulfide sulfur) and other compounds (remainder sulfur) were determined for each fraction. Fractions boiling up to 100° contained mainly remainder sulfur, whereas fractions boiling between 100° and 225° contained mainly sulfide

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S/250/62/006/007/002/002
I032/I242

The groups of sulfur containing ...

sulfur. In no fraction did the mercaptane sulfur and disulfide sulfur account for more than 10% of the total sulfur. There is 1 figure and 2 tables. ✓

ASSOCIATION: Institut fiziko-organicheskoy khimii AN BSSR
(Institute of Physical-Organic Chemistry, AS BSSR)

PRESENTED: by B.V. Yerofeyev, Academician AS BSSR

SUBMITTED: December 12, 1961

Card 2/2

PAULUCHENKO, K.V. [Pauluchenka, K.V.]; SHEVCHIK, A.M. [Shevchik, A.M.];
GORLASH, Ya.I. [Gordash, Yu.I.]; TELEGINA, T.Y. [Telezhina, T.E.]

Kinetics of the catalytic transformation of octylmercaptan.
Vestn AN BSSR. Ser. fiz.-tekh. nav. no.4:78-84 '63.

(MIRA 17:12)

SKLYAR, V.T., kand. khimicheskikh nauk; CORDASH, Yu.T., kand. khimicheskikh nauk; KAL'CHENKO, V.M.

Comparative study of the demulsification capacity of certain
ionogenic surfactants. Neft. i gaz. prom. no.2:61-63 Ap-Je '64.
(MIRA 17:9)

L 41165-55 EWT(m)/EWP(+)/EWP(b) IJP(c) JD S/9286/65/000/003/0041/0041
 ACCESSION NR: AP5007171

AUTHOR: Lebedev, Ye. V.; Sklyar, V. I.; Perekrast, A. N.; Gordash, Yu. T.;
 [illegible]

TITLE: A method for producing highly aromatized material
 Class 23, No 167933

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 41

TOPIC TAGS: carbon black, aromatic compound

ABSTRACT: This Author's Certificate introduces a method for producing highly
 aromatized material for the production of carbon black. The material is made from
 [illegible] to isolate the hydrocarbon

[illegible]
 used as the petroleum [illegible] [illegible]
 tillate.

ASSOCIATION none

Card 1/4

SUBMITTED: 18 JAN 64

L 36246-65 EWT(π)/BPF(ε)/BWP(j)/ EMA(δ)/T Pc-4/Pr-4 RH
S/0065/84/000 010/0037/0040 14/12

AUTHOR: Gordash, Yu. I., Sklyar, V. T., Serov, V. A.

TITLE: Petroleum desalination by use of complex pentacerythritic acids as surface-active compounds

SOURCE: Khimiya i tekhnologiya topliv i nasel, no. 1

TOPIC TAGS: petroleum desalination, surface active compound, pentacerythritol complex ester, esterification, carboxylic acid hydroxyl group

ABSTRACT: The use of non-ionogenic surface-active compounds for petroleum desalination is commonly known and the authors discuss the effect of pentacerythritol on the desalination of oil. Complex esters of multi-atom alcohols and carboxylic acids are used. The authors show that the complex esters of pentacerythritol and acetic, propionic, butyric and stearic acids have a very weak absorption band which is characteristic of the ester group.

Card 1/2

5. 195-65

ACCESSION NR. AP4047389

groups. These esters were tested as desalination agents of Ukrainian petroleum. The optimal concentration of the complex esters was found to be 0.05-0.1% to 0.03-0.05% depending on the degree of saturation of the petroleum with free OH groups. It was found that an increase in the number of free OH groups in the petroleum leads to an increase in the degree of desalination. It was also found that an increase in the number of free OH groups in complex esters leads to an increase in the degree of desalination of petroleum. Mixtures of pentaerythritol tri- and tetraacetate with butyric acid gave the best results. The findings of the authors can be used for the development of more effective deemulsifiers to desalinate petroleum in any Soviet deposit. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: UkrNIIGiproneft'

SUBMITTED: 00

ENCL: 00

SUB CODE: GC

NR REF SOV: 004

OTHER: 004

Cord 2/2 jo

GORDASHEVSKIY, A.V., agronom.

Valuable fallow crop. Zemledelie 6 no.3:78-80 Mr '58.

(MIRA 11:4)

(Corn (Maize))

GORDASHEVSKIY, P. F. —

"The Effect of Certain Mineral Elements on the Quality of Calcareous- Pozzuolanic Cements." Can Tech Sci, Moscow Inst of Engineers of Municipal Construction, 19 Oct 54. (VM, 8 Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Stal. No. 491, 5 May 55

GOEDASHEVSKIY, P.F., kand.tekhn.nauk

Changes in the chemical composition of ground waters after
the construction of Tsimlyansk Reservoir. Gidr. stroi. 30
no.9:33-35 S '60. (MIRA 13:9)
(Tsimlyansk Reservoir region--Water, Underground)

GORODASHEVSKIY, P.F., kand. tekhn. nauk

Properties and possibilities of using phosphogypsum. Stroi. mat. 6
no. 12:32-34 D '60. (MIRA 13:11)

(Binding materials)

GORDASHEVSKIY, P.F., kand.tekhn.nauk

Studies of some properties of structural phospho-gypsum. Sbor.
trud. ROSNIIMS no.20:108-118 '61. (MIRA 16:1)
(Gypsum--Testing)

GORDASHEVSKIY, P.F., kand.tekhn.nauk; BROYDO, TS.I., inzh.;
STOLOVITSKAYA, M.M., inzh.

Phosphorus anhydrite binding material. Stroi.mat. 8 no.7:34-35
Jl '62. (MIRA 15:8)
(Binding materials)

GORDASHEVSKIY, P.F., kand. tekhn. nauk; KORYUSHINA, A.P., inzh.;
~~SMOLIN, N.P., inzh.~~

Kilning processes must be determined depending on the use
of lime. Stroi. mat. 9 no.6:8 Je '63. (MIRA 17:8)

GORDASHEVSKIY, P.F., kand.tekhn.nauk

Results of the thermal and roentgenographic analyses of gypsum.
Stroi.mat. 9 no.12:28-30 D '63. (MIRA 17:3)

GORDASHEVSKIY, P.F., kand. tekhn. nauk

High strength gypsum; prospects for its manufacture and use.
Stroi. mat. 10 no.10:9-10 0 '64.

(MIRA 18:2)

1. Rukovoditel' laboratorii gipsa Gosudarstvennogo vsesoyuznogo
nauchno-issledovatel'skogo instituta stroitel'nykh materialov
i konstruktsiy.

LOBOV, V.P.; YEFIMOV, G.A. [Iefimov, H.O.]; GORDAYA, M.V. [Horda, M.V.]

Herbicidal properties of diphenylethane derivatives. Dop. AN
URSR no.5:682-686 '64. (MIRA 17:6)

1. Institut organicheskoy khimii AN UkrSSR. Predstavleno akademikom
AN UkrSSSR D.K.Zerovym.

L 64349-65 EWT(d)/EWT(m)/EPP(c)/IWP(f)/T/EMA(c) WE

ACCESSION NR: AP502494

RU/0018/64/000/010/0614

AUTHOR: Gordeev, P. A.; Siskin, V. G.

TITLE: Method of calculating the heat evolved in diesel engines by means of indicator diagrams

SOURCE: Constructia de masini, no. 10, 1964, 534-537

TOPIC TAGS: diesel engine, heat of combustion, combustion engineering

ABSTRACT: A theoretical derivation of a formula for determining the heat released in Diesel engines. The formula makes use of the indicator diagram of the engine and takes into account the quantitative and qualitative variations in the combustion mixture. Orig. Art. Incl.: 38 formulas and 1 tables.

ASSOCIATION: none

SUBMITTED OO

ENCL: OO

SUB CODE: FR, TC

NR REF SO: 000

OTHER: 000

JPRS

1/1

87893

3.9300

P/026/60/008/003/001/004
A224/A026

AUTHORS: Droste, Zofia; Gordejuk, Józef

TITLE: A Simplified Method of Determining the Frequency Characteristic U_1 at $\sigma^2 > 0$

PERIODICAL: Acta Geophysica Polonica, 1960, Vol. 8, No. 3, pp. 200 - 205

TEXT: The authors present a simplified method of determining the frequency characteristic U_1 for the initial impulses of the seismic wave recorded by a seismograph with galvanometric registration, in the case when $\sigma^2 > 0$. Starting with the method described in a previous work (Ref. 1), the authors derive a simplified system of equations and apply them to determine the U_1 characteristic of the SK-58 seismograph having the following constants: $T_1 = 2.2$ sec; $T_2 = 0.32$ sec; $D_1 = 0.70$; $D_2 = 3.00$. There are 2 figures and 4 references: 3 Soviet and 1 Polish.

ASSOCIATION: Institute of Geophysics of the Polish Academy of Sciences

SUBMITTED: December 1, 1959

Card 1/1

SO DUMADSE, A. S. --

"Morphological Changes in the Peripheral Portion of the Somatic Nervous System During Secondary Tuberculosis." Card Med Sci, Kishinev State Medical Inst, Kishinev, 1953. (Russiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

GONDELADZE, A.S., (Kishinev)

Morphological changes in the peripheral segment of the somatic nervous system in secondary tuberculosis. Arkh.pat. 18 no.2:106-107 '56 (MIRA 11:10)

1. Iz kafedry patologicheskoy anatomii (zav. prof. F.Ye. Ageychenko [deceased]) Kishenevskogo gosudarstvennogo meditsinskogo instituta.
(TUBERCULOSIS, pathology,
nervous system, peripheral segment of somatic system
(Rus))
(NERVOUS SYSTEM, PERIPHERAL, in various diseases,
tuberc., peripheral nerves of somatic system (Rus))

GORDENADZE, A.S.

Experimental skin cancer in rabbits caused by 9,10-dimethyl-1,2-benzanthracene. Zdravookhranenie 2 no.3:35-39 My-Je '59.

(MIRA 12:10)

1. Iz kafedry patologicheskoy anatomii (zav. - kand.med.nauk V.Kh.Anestiadi) Kishinevskogo meditsinskogo instituta. Nauchnyy rukovoditel' - prof.D.I.Golovin.

(BENZANTHRACENE) (CARCINOGENS) (SKIN--CANCER)

SLEPYKH, A.S., dotsent; GORDELADZE, A.S., dotsent

Morphological and histochemical characteristics of the uterine
cicatrix following cesarean section. Akush. i gin. 39 no.5:103-
110 S-0 '63. (MIRA 17:8)

1. Iz kafedry akusherstva i ginekologii i kafedry patologi-
cheskoy anatomii Altayskogo meditsinskogo instituta (nauchnyy
rukovoditel' - chlen-korrespondent AMN SSSR prof. L.S.
Persianinov).

DEDERER, Yu.N.; POLUSHKIN, B.V.; GORDELADZE, A.S. (Barnaul)

Changes in the serotonin content of the gastrointestinal tract
in experimental intestinal obstruction in rats. Pat. fiziol.
i eksp. terap. 8 no.1:52-55 Ja-F '64. (MIRA 18:2)

1. Kafedry gosspital'noy khirurgii, patofiziologii, patoanatomii
Altayskogo meditsinskogo instituta, Barnaul.

GOL'DINOV, L.R.; GORDELADZE, G.E.; KHASHBA, M.L., red.; KHOSHTARIYA, V.G.,
red. izd-va;

[Soviet Abkhazia] Sovetskaya Abkhaziya. Tbilisi, Gos. izd-vo
"Sabchota Sakartvelo," 1960. 1 v. (MIRA 14:10)
(Abkhazia--Views)

GORDELADZE, I.E.

We shall carry out our tasks. Kons. i ov. prbm. 16 no.10:
6-7 0 '61. (MIRA 14:11)

1. Agarinskiy konservnyy zavod.
(Agara--Canning industry--Equipment and supplies)

GORDEEV, P.A.; SISKIN, V.G.

Method of calculating the heat evolved in diesel engines
by the aid of indicator diagrams. Constr mas 16 no.10:
534-537 0 '64.

GORDELADZE, A.S. (Barnaul)

Method for staining lipids with phenol-acetic Sudan III.

Ark. pat. 25 no.10:54-55 '63.

(MIRA 17:7)

1. Iz kafedry patologicheskey anatomii Altayskogo meditsinskogo instituta.

GORDELADZE, Sh.G.

Determination of the mass of shells of novae from line intensities in the Balmer series. Dop.AN URSR no.2:9-13 '48. (MLRA 9:9)

1. Predstavleno diysnim chlenom AN URSR O.Ya.Orlovim.
(Stars, Nov)

GORDELADZE, Sh. G.

HORDELADZE, Sh. H.; BARABASHOV, M. P., diyanyy chlen.

Chemical composition and transparency of novae envelopes. Dop. AN URSR no. 3:181-183 '51. (MLRA 6:9)

1. Akademiya nauk Ukrayins'koyi RSR (for Barabashov). 2. Holovna astronomichna observatoriya Akademiyi nauk Ukrayins'koyi RSR (for Hordeladze). (Stars, New)

GORDELADZE, Sh.G.

Conference of Ukrainian astronomers. Visnyk AN URSR 24 no.11:78
N '52. (Ukraine--Astronomy) (MLRA 9:9)

GORDELADZE, Sh.G.

In the Astronomy Committee of the Academy of Sciences of the
Ukrainian S.S.R. Visnyk AN URSR 24 no.11:73 N '52. (MLRA 9:9)
(Ukraine--Astronomy)

GORDELADZE, Sh. G.

Dissipation of Mass During the Surge of Novae. Izv. Glav. Astron. Observ AN Ukrainian SSR, I, 1953, 67-84.

The amount of matter ejected during the surge of a Nova is analyzed. Suggests new methods consisting in determination of density of the stellar shell by the study of forbidden lines. Another method consists in the determination of density from the absolute intensities of the Balmer Lines. (PZhAstr, No 9, 1954)

SO: W-31128, 11 Jan 55

Gordeladze, Sh. G.
General, Scientific-Popular Literature (1529)

Nauki i zhittya, No 9, 1953, pp 28-30

Gordeladze

"Is There Life of Other Planets?" (Ukrainian)

No abstract.

SO: Referativnyy Zhurnal--Astronomiya i Geodeziya, No 1, Jan 54;
(W-30785, 28 July 1954)

GORDELADZE, Sh. G.

Enlarged plenum of the Astronomical Council of the Academy of
Sciences of the Ukrainian S.S.R. and of the Department of
Physical, Mathematical, Chemical and Geological Sciences of
the Academy of Sciences of the Ukrainian S.S.R. Visnyk AN URSR
26 no.5:76-78 My '55. (MIRA 8:8)
(Ukraine--Astronomy)

GOEDBLADE, Sh.G.

Problems on the nature of "protestars". Visnyk AN URSR 26 no.11:37-43
N '55. (Stars) (MIRA 9:2)

GORIUNOV, Sh.G.

Two- and three-chamber photographic telescopes of the Main Astronomical Observatory of the Academy of Sciences of the Ukrainian S.S.R. Izv.Glav.astron.obser. 1 no.2:32-36 '56. (MIRA 9:8)
(Telescope) (Astronomical photography)

GORDELADZE, Sh.G.

Scientific conferences and expeditions. Izv.Glav.astron.obser. 1
no.2:105-109 '56. (MLRA 9:8)
(Ukraine--Astronomy)

GORDMEADEN, Sh.G.

Method for determining masses of novae. Izv. Glav. astron. obser.
(MIRA 11:2)
AN URSR 2 no.1:92-94 '57.
(Stars, New)

~~SECRET~~
GURTOVENKO, N.A.; GORDELADZE, Sh.G.

Three-color colorimetry of the integral brightness of Mars based on observations made in 1956 [with summary in English], Astron. zhur. 34 no.6:959-961 N-D '57. (MIRA 11:2)

1. Glavnaya astronomicheskaya observatoriya AN USSR, Kiev.
(Mars (Planet))

YAKOVKIN, Avenir Aleksandrovich. Prinimali uchastiye: GORDELADZE, Sh.G.
nauchnyy sotrudnik; KOLCHINSKIY, I.G., nauchnyy sotrudnik;
SAYKOVSKIY, M.I., nauchnyy sotrudnik; KOLCHINSKIY, I.G., kand.
fiziko-matemat.nauk, otv.red.; LABINOVA, N.M., red.izd-va;
SKLYAROVA, V.Ye., tekhn.red.

[Artificial earth satellites] Iskusstvennye sputniki zemli.
Kiev, Izd-vo Akad.nauk USSR, 1958. 46 p. (MIRA 12:9)

1. Glavnaya astronomicheskaya observatoriya AN USSR (for Gorde-
ladze, Kolchinskiy). 2. Institut teploenergetiki AN USSR (for
Saykovskiy).

(Artificial satellites)

3. 1550

81465

3. 1510

SOV/35-59-8-6458

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959,
Nr 8, p 52

AUTHORS: Gordeladze, Sh.G., Gurtovenko, E.A.

TITLE: Three-Color Colorimetry of Mars Integrated Brightness During
the 1956 Opposition ✓

PERIODICAL: Izv. Gl. astron. observ. AS UkrSSR, 1958, Vol 2, Nr 2,
pp 140 - 154 ✓

ABSTRACT: Photographic observations of Mars were performed with a three-
camera astrograph of the Main Astronomical Observatory AS
UkrSSR from September 1, 1956, to October 2, 1957. Their purpose
was determination of integrated brightness in three regions of
the spectrum: blue, yellow and red, as well as studying the
variations in the planet's brightness with its phase. The star
 α Lyr served as a comparison star. The photometry of 60 focal
negatives was made with a microphotometer of the Markov type.
The Pleiades were used for photometric graduation, which were
photographed in such a way that Mars and Vega were both on the

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SOV/35-59-8-6458

Three-Color Colorimetry of Mars Integrated Brightness During the 1956 Opposition

characteristic curve. In determining the stellar magnitudes of Mars, corrections for the differences in exposures were calculated from Schwarzschild's formula the exponent of which was determined for each region of the spectrum from additional observations. Corrections for differential extinction were obtained with the values of zenith attenuation taken from other sources. Systematic errors of the photometric processing are analyzed. The mean error in Mars brightness determination for an individual date amounted to $\pm 0^m.05$. Photographic, photo-visual and photoreduced magnitudes of the planet m_o , reduced to the mean opposition, are presented in a table and in graphs. The final mean results are as follows:

λ_{eff}	m_o	γ	A_g	A_s
430	-1.66	$0^m.030$	0.230	0.083
546	-3.47	0.054	0.622	0.069
622	-4.44	0.058	1.053	0.119

They show that this opposition was characterized by anomalously low values of

Card 2/3

81465

SOV/35-59-8-6458

Three-Color Colorimetry of Mars Integrated Brightness During the 1956 Opposition

m_0 , very high mean values of the phase coefficient, γ , high geometric albedo A_g , and low spheric albedo A_s . A rapid decrease of color index with time was observed, from +1.^m8 in opposition to +0.^m8 in January 1957; its change with the phase angle was rectilinear with a gradient of 0.^m026 per 1°. Authors came to the conclusion that the peculiarities discovered were real. They were caused either by the properties of the scattering indicatrix of the planet's very turbid atmosphere or by changes in it, which distort the phase curves. There are five references. ✓

I.I. Lebedeva

Card 3/3

000/21-59-17-50

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 11, p 59 (USSR)

AUTHORS: Gordeladze, Sh.G., Chuprina, R.I.

TITLE: Relative Spectrophotometry of the Flare Spectrum, Obtained at a Time of a Total Solar Eclipse on the 30th June 1954

PERIODICAL: Izv. Gl. astron. observ. AS UkrSSR, 1958, Vol 2, Nr 2, pp 155 - 159

ABSTRACT: Information on the processing of the flare spectrum, obtained by the expedition of the Main Astronomical Observatory, AS UkrSSR, with the aid of a prismatic camera ($F = 170$ cm, $D = 15$ cm, 36° flint prism). The dispersion at $H\gamma$ amounted to 62.1 Å/mm. The calibration was accomplished according to the marks of the tubular photometer. In order to standardize, the incandescent lamp spectrum was photographed with a known distribution of energy. Relative intensities of the lines $H\alpha$ - $H\delta$, D_3 , H and K (with respect to $I_{H\gamma}$) were obtained. The recording of the spectrum and the tables of the intensity of the lines are cited.

Card 1/1

V.B.Ye.

BURKSER, Ye.S. [Burksr, IE.S.]; GORDELADZE, Sh.G., kand.fiz.-mat.nauk;
CHERNEDNYCHENKO, V.I. [Cherednychenko, V.I.]; kand.fiz.-mat.nauk;
SHUGAYLIN, O.V. [Shuhaylin, O.V.], kand.filos.nauk

Evidences of evolution of small bodies in the solar system
("Physical characteristics of comets" [in Russian] by S.K.
Vsekhsviatskii, Reviewed by IE.S. Burksr and others. Visnyk AN
URSR 29 no.11:70-73 N '58. (MIRA 11:12)
(Comets) (Vsekhsviatskii, S.K.)

VSEKHSVYATSKIY, Sergey Konstantinovich; TSESEVICH, Vladimir Platonovich;
GORDELADZE, Sh.G.; VER, A.Ya., red.

[Soviet astronomy on sun, stars, and planets] Radians'ka
astronomia pro sontse, zirky ta planety. Kyiv, 1959. 36 p.
(Tovarystvo dlia poshyrennia politychnykh i naukovykh znan'
Ukrains'koi RSR. Ser.5, no.8) (MIRA 12:8)
(Astronomy)

TSESEVICH, Vladimir Platonovich [TSesevych, V.P.]; GORDELADZE, Sh.G.
[Hordeladze, Sh.H.], kand.fiz.-matem.nauk, glavnyy red.

[First results of the International Geophysical Year] Pershi
pidsunky mizhnarodnoho geofizychnoho roku. Kyiv, 1959. 49 p.
(Tovarystvo dlia poshyrennia politychnykh i naukovykh snan'
Ukrains'koi RSR. Ser.5, no.23) (MIRA 13:2)
(International Geophysical Year, 1957-1958)

GORINKLADZE, Sh., kand.fiz.-mat.nauk, dots.

Automatic interplanetary station. Nauka i zhyttia 9 no.10:
8-9 0 '59. (MIRA 13:2)
(Space stations)

GORDELADZE, SH.

PHASE I BOOK EXPLOITATION SOV/5466

Akademiya nauk Ukrayins'koyi RSR. Holovna astronomichna observatoriya.

Izvestiya. t. 3, vyp. 1 (News of the Main Astronomical Observatory. v. 3, no. 1) Kiyev, 1960. 141 p. 1,000 copies printed.

Editorial Board: Resp. Ed.: A. A. Yakovkin, Sh. G. Gordeladze, and I. G. Kolchinskiy; Ed. of Publishing House: N. M. Labinova; Tech. Ed.: A. A. Matveychuk.

PURPOSE: This book is intended for astronomers.

COVERAGE: This is a collection of 15 articles in the field of astronomy written by members of the Glavnaya astronomicheskaya observatoriya AN UkrSSR (Main Astronomical Observatory AS UkrSSR). The articles are based on original research carried out by the authors and discuss the following topics: the precise position of stars and the lesser planets; the total solar eclipse of June 30, 1954; corpuscular streams of solar radiation (theoretical analysis); phenomena of the moon's rotation (latest observations); luminescence

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News of the Main Astronomical (Cont.)

SOV/5466

of comet tails and the characteristics of comets observed in 1956-57. The collection includes a report of the Observatory's work in compiling a catalog of the brilliancy of stars, and a catalog of 300 stars in the constellation of Aquila. No personalities are mentioned. Each article is accompanied by references.

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Gorynya, A. A. Determining Constants of Physical Libration From Hartwig's Observations of 1890 to 1922, With a Consideration of the Effect of Libration in the Radius of the Moon	23

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News of the Main Astronomical (Cont.)

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Card 4/4

S/021/60/000/006/007/019
A153/A029

AUTHORS: Hordeladze, Sh.H.; Lyubchenko, H.H.

TITLE: On a Quick-Action Machine for Measuring the Brilliance and Coordinates
of Stars on Negatives

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi RSR, 1960, Nr. 6, pp. 766 - 769

TEXT: Stressing the urgency of some astrophysical problems (the problem of the structure of the Galaxy, for example), requiring for their solution the knowledge of various physical characteristics of a large number of stars (including their brilliancy in different spectral regions), the authors emphasize the necessity for developing a quick-action measuring and computing automatic machine for dealing with such problems and discuss the basic principles of the possible design of such a machine. The readout of the machine, operating with star photographic negatives, comprises stellar magnitudes [coordinates of centers (x_0 , y_0)], spherical (α , δ) and Cartesian coordinates of stars. This would-be machine could measure 36,000 star coordinates per hour, giving out 6,000 stellar magnitudes. Such machines could be widely used for discovering and studying variable stars in

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S/021/60/000/006/007/019
A153/A029

On a Quick-Action Machine for Measuring the Brilliance and Coordinates of Stars
on Negatives

great numbers, replacing the work effort of about 300 persons. A block diagram of such a would-be machine is given on p. 767, each component of which is described with respect to its functions and scope. There are 2 figures and 1 block diagram. ✓

ASSOCIATION: Astronomichna observatoriya AN UkrSSR, Obchyslyval'nyy tsentr AN UkrSSR (Astronomical Observatory of the AS UkrSSR, Computation Center of the AS UkrSSR)

PRESENTED: by B.V. Hnyedenko, Academician, AS UkrSSR

SUBMITTED: February 15, 1960

Card 2/2

GORDELADZE, Sh.G., kand.fiz.-mat.nauk

Into space! Nauka i zhyttia 10 no.9:4-5 8 '60.

(Astronautics)

(Air)

(MIRA 13:9)

VSEKHSVYATSKIY, Sergey Konstantinovich, doktor fiziko-matem. nauk,
prof.; GORDELADZE, Sh.G., kand. fiziko-matem. nauk, dots.,
otv. red.; VYADRO, Sh.Ya., red.; MATVIICHUK, A.A., tekhn.
red.

[Current problems in the study of the nearest planets] Sov-
remennye problemy issledovaniia blizhaishikh planet. Kiev,
Ob-vo po rasprostraneniui polit. i nauch. znanii USSR, 1961.
48 p. (MIRA 15:2)

(Planets--Observation)

GORDELADZE, Sh.G.; FEDORCHENKO, G.L.

Photographic and photoreduced magnitudes of 1,100 stars in a region with
the center $\alpha = 18^h 53^m$, $\delta = +15^\circ 5'$ (1950). Izv. Glav. astron. obser. AN
URSR β no. 2:112-131 '61. (MIRA 14:5)
(Stars—Magnitudes)